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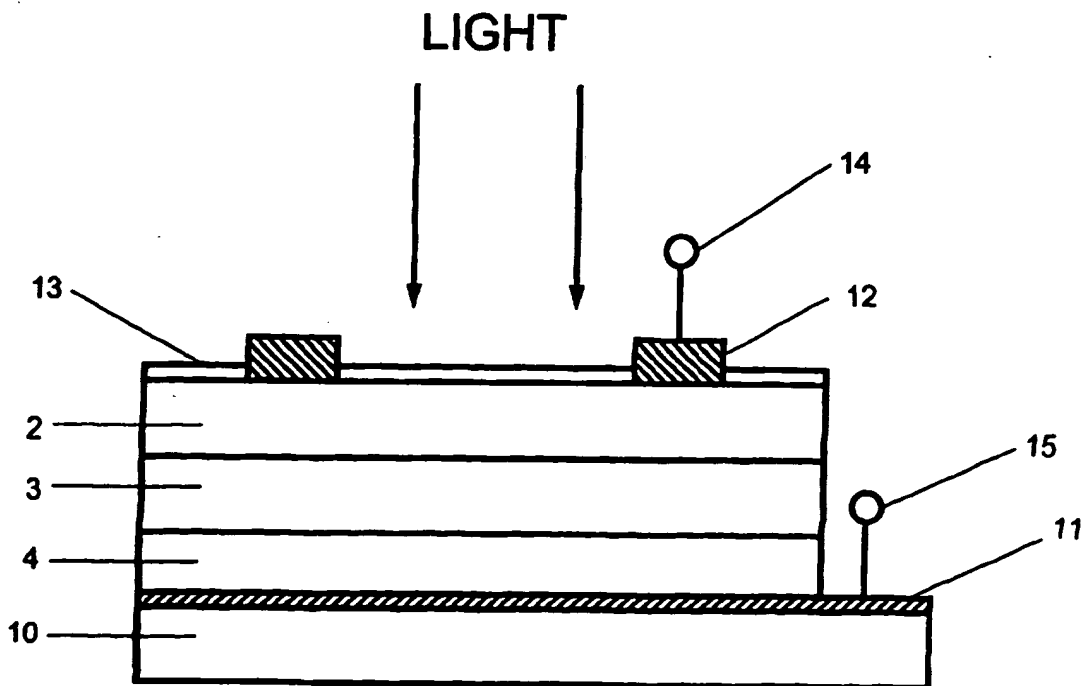
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(54) Title: **POLYCRYSTALLINE THIN-FILM SOLAR CELLS**



(57) Abstract: Double-heterojunction polycrystalline thin-film solar cell devices that include a polycrystalline p-layer, a polycrystalline i-layer, and a polycrystalline n-layer. In one variant, at least two of the p-layer, i-layer, and n-layer comprise a polycrystalline Cu material. In another variant, each of the p-layer, i-layer, and n-layer comprise a common cation or a common anion.

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